Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

CW 99: Inscribed & Circumscribed Polygons

**Honors Geometry**

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| 1. The diameter of the circle below is 5 in. Find the missing side lengths of the triangle.   **../../../../../Desktop/Screen%20Shot%202016-03-16%20at%208.24.45%20PM** | 1. Line segment AC is a diameter of the circle such that AC = 9 cm. BC is 6 cm. Find the missing leg of the triangle.  **../../../../../Desktop/Screen%20Shot%202016-03-16%20at%208.19.24%20PM** |
| 1. A square is inscribed in a circle that has a radius of 5.  a) Draw a picture of the figure.   b) Find the length of the diagonal of the square.   c) Find the area of the square and the circle. | 1. A square is inscribed in a circle. The diagonal is 12 cm long.   a) Draw a picture   b) What is the area of the square? |
| 1. A circle is circumscribed by a square. The radius of the circle is 7 cm.   a) Draw a picture.  b) Find the area of a circle.   c) Find the area of the square. | 1. A circle is inscribed in a square. The side length of the square is 10 in. Find the area of the square and the area of the circle. |
| 1. A square ABCD is inscribed in another square PQRS. The side length of PQRS is 5 in. Find the area of the inscribed square. | 1. The radius of the circle below is 10 cm.   a) Find the area of the triangle.  b) Find the area of the circle.  c) Find the area of the square.  ../../../../../Desktop/Screen%20Shot%202016-03-16%20at%208.27.24%20PM |
| 1. **../../../../../Desktop/Screen%20Shot%202016-03-16%20at%208.13.52%20PM** | 1. Find m∠ABC 2. Find m∠AOB 3. J is the midpoint of segment AB. Find m∠AOJ. 4. Find m∠JAO 5. Find m∠AOE |
| 1. **../../../../../Desktop/Screen%20Shot%202016-03-16%20at%208.13.47%20PM** | 1. Find m∠ABC 2. Find m∠AOB 3. J is the midpoint of segment AB. Find m∠AOJ. 4. Find m∠JAO 5. Find m∠AOE |
| 1. The area of the circle is . What is the area of the square?   quare Inscribed In A Circle | 1. entagon Inscribed in CircleFind the area of the pentagon, if the radius is 4. |
| 1. The area of the outside region is . Find the area of the inner circle.   wo circles and one square - problem | 1. The area of the square is 128. Find the area of the inner and outer circles.   wo circles and one square - problem |
| 1. Three shapes are placed inside a larger circle: an equilateral triangle, a circle and a circle that has an area that is half of the other inscribed circle. If the diameter of the outer circle is 12, what is the area of the three shapes within the larger circle?   Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-16 at 9.41.18 PM.png | |
| 1. Which area is larger: the shaded region on the right or the shaded region on the left? Justify your answer numerically. (Both squares are 2in. x 2in)   http://d2vlcm61l7u1fs.cloudfront.net/media%2Fcd6%2Fcd6d5f9f-2484-4d87-80cb-df2f828fc86c%2FphpAkAt0V.png | |